IN THE CLAIMS:

Please amend the claims as follows:

- (Original) A method for processing a substrate, comprising:
- reacting an organosilicon compound selected from the group consisting of dimethylsilanediol, diphenylsilanediol, dimethyldimethoxysilane, diethyldiethoxysilane, diethyldiethoxysilane, diethyldiethoxysilane, diethyldiethoxysilane, diethyldisiloxane, diethyldisiloxane, diethyldisiloxane, diethyldisiloxane, 1,3-dimethyldisiloxane, 1,1,3,3-tetramethyldisiloxane, hexamethyldisiloxane, diethyldisiloxane, diethyldisiloxane, bis(1-methyldisiloxanyl)methane, 2,2-bis(1-methyldisiloxanyl)propane, 1,3,5,7-tetramethylcyclotetrasiloxane, octamethylcyclotetrasiloxane, 1,3,5,7-tetrasilano-2,6-dioxy-4,8-dimethylene, 1,3,5-trisilanetetrahydropyran, and 2,5-disilanetetrahydrofuran to deposit a dielectric layer comprising silicon, oxygen, and carbon on the substrate; and

depositing a layer comprising silicon, carbon, and hydrogen on the dielectric layer.

- 2. (Original) The method of claim 1, wherein the organosilicon compound is octamethylcyclotetrasiloxane.
- The method of claim 1, wherein the layer comprising (Currently Amended) 3. silicon, carbon, and hydrogen is deposited from a gas mixture comprising a compound selected from the group consisting of methylsilane, dimethylsilane dimethysilane, 1,1,2,2vinylmethylsilane, propylsilane, diethylsilane, trimethylsilane, hexamethyldisilane, 1,1,2,2,3,3-hexamethyltrisilane, 1,1,2,3,3tetramethyldisilane, dimethyldisilanopropane, dimethyldisilanoethane, pentamethyltrisilane, tetramethyldisilanoethane, and tetramethyldisilanopropane.
- 4. (Original) The method of claim 1, wherein the layer comprising silicon, carbon, and hydrogen further comprises a dopant and is deposited from a gas mixture comprising the dopant.

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- The method of claim 4, wherein the gas mixture further comprises a 5. (Original) silicon source, and the ratio of the silicon source to the dopant in the gas mixture is between about 1:1 to about 1:100.
- The method of claim 1, wherein the organosilicon compound is 6. (Original) reacted in the absence of an oxidizer other than the organosilicon compound.
- The method of claim 1, wherein the layer comprising silicon, 7. (Original) carbon, and hydrogen is deposited by a plasma process.
- The method of claim 1, wherein the dielectric layer has a dielectric 8. (Original) constant of about 3 or less.
- A method for processing a substrate, comprising: 9. (Original)

reacting a gas mixture comprising an organosilicon compound selected from the group consisting of methylsilane, dimethylsilane, trimethylsilane, tetramethylsilane, diphenylsilanediol, phenylsilane, diphenylsilane, ethylsilane, dimethylsilanediol, methylphenylsilane, disilanomethane, bis(methylsilano)methane, 1,2-disilanoethane, 1,3,5-trisilano-2,4,6-trimethylene, 2,2-disilanopropane, 1,2-bis(methylsilano)ethane, dimethyldiethoxysilane, diethyldiethoxysilane, dimethyldimethoxysilane, 1,1,3,3-tetramethyldisiloxane, 1.3-dimethyldisiloxane, diethyldimethoxysilane, 1,3-bis(silanomethylene)disiloxane, bis(1hexamethyldisiloxane, 2,2-bis(1-methyldisiloxanyl)propane, 1,3,5,7methyldisiloxanyl)methane, 1,3,5,7,9octamethylcyclotetrasiloxane, tetramethylcyclotetrasiloxane, 1,3,5,7-tetrasilano-2,6-dioxy-4,8-dimethylene, 1,3,5pentamethylcyclopentasiloxane, trisilanetetrahydropyran, and 2,5-disilanetetrahydrofuran, to deposit a dielectric layer comprising silicon, oxygen, and carbon on the substrate, wherein the dielectric layer has a carbon content of at least 1% by atomic weight and a dielectric constant of less than about 3: and

depositing an oxygen doped silicon carbide layer on the dielectric layer by

reacting an alkylsilane and oxygen in a plasma of an inert gas.

- 10. (Original) The method of claim 9, wherein the gas mixture further comprises an oxidizing gas.
- 11. (Original) The method of claim 10, wherein the oxidizing gas is selected from the group consisting of oxygen (O_2) , ozone (O_3) , nitrous oxide (N_2O) , carbon monoxide (CO), carbon dioxide (CO_2) , water (H_2O) , and combinations thereof.
- The method of claim 9, wherein the alkylsilane is (Currently Amended) 12. selected from the group consisting of methylsilane, dimethylsilane dimethysilane, 1,1,2,2vinylmethylsilane, propylsilane, diethylsilane, trimethylsilane, hexamethyldisilane, 1,1,2,2,3,3-hexamethyltrisilane, 1,1,2,3,3tetramethyldisilane, dimethyldisilanopropane, dimethyldisilanoethane, pentamethyltrisilane, tetramethyldisilanoethane, and tetramethyldisilanopropane.
- 13. (Original) The method of claim 9, wherein the inert gas is selected from the group consisting of helium, argon, and nitrogen.
- 14. (Original) The method of claim 9, wherein the plasma is formed at between about 0.3 W/cm² and about 3.2 W/cm².
- (Original) A method for processing a substrate, comprising:

reacting an organosilicon compound selected from the group consisting of dimethylsilanediol, diphenylsilanediol, dimethyldimethoxysilane, diethyldiethoxysilane, diethyldiethoxysilane, diethyldiethoxysilane, diethyldiethoxysilane, 1,3-dimethyldisiloxane, 1,1,3,3-tetramethyldisiloxane, hexamethyldisiloxane, 1,3-bis(silanomethylene)disiloxane, bis(1-methyldisiloxanyl)methane, 2,2-bis(1-methyldisiloxanyl)propane, 1,3,5,7-tetramethylcyclotetrasiloxane, octamethylcyclotetrasiloxane, 1,3,5,7,9-pentamethylcyclopentasiloxane, 1,3,5,7-tetrasilano-2,6-dioxy-4,8-dimethylene, 1,3,5-trisilanetetrahydropyran, and 2,5-disilanetetrahydrofuran to deposit a dielectric layer

comprising silicon, oxygen, and carbon on the substrate; and depositing an oxygen doped silicon carbide layer on the dielectric layer.

- 16. (Original) The method of claim 15, wherein the organosilicon compound is octamethylcyclotetrasiloxane.
- 17. (Currently Amended) The method of claim 15, wherein the oxygen doped silicon carbide layer is deposited from a gas mixture comprising oxygen and a compound selected from the group consisting of methylsilane, dimethylsilane dimethysilane, trimethylsilane, diethylsilane, propylsilane, vinylmethylsilane, 1,1,2,2-tetramethyldisilane, hexamethyldisilane, 1,1,2,2,3,3-hexamethyltrisilane, dimethyldisilanoethane, dimethyldisilanopropane, tetramethyldisilanoethane, and tetramethyldisilanopropane.
 - 18. (Original) The method of claim 15, wherein the organosilicon compound is reacted in the absence of an oxidizer other than the organosilicon compound.
 - 19. (Original) The method of claim 15, the oxygen doped silicon carbide layer is deposited by a plasma process.
 - 20. (Original) The method of claim 15, wherein the dielectric layer has a dielectric constant of about 3 or less.